## FIG. 1

- 1 image input unit;
- 2 memory unit;
- 5 control unit;
- 4 image output unit;
- 3 image quality improving process unit;
- 38 averaged value calculating unit;
- 36 improved domain block forming unit;
- 34 reduced range block forming unit;
- 31 domain block extracting unit;
- 37 edge enhancement processing unit;
- 35 similarity degree judging unit;
- 33 range block extracting unit;
- 32 domain block classifying unit;

## FIG. 2

- S61 extract domain block image from original image;
- S62 classify domain block image;
- S63 edge portion, or noise portion?
- s64 extract range block image from a neighborhood of domain block image;
- S65 form reduced range block image;
- see calculate least-squares-error of pixel values between domain block image and reduced range block image, select reduced range block image having pixel value and pattern, which are the most similar to

those of domain block image, and extract pixel value conversion parameters "a" and "b";

- S67 form improved domain block image;
- 568 edge portion?
- 569 execute edge enhancement processing operation;
- \$70 add/write into memory;
- \$71 all of domain blocks have been processed?
- S72 calculate averaged value;

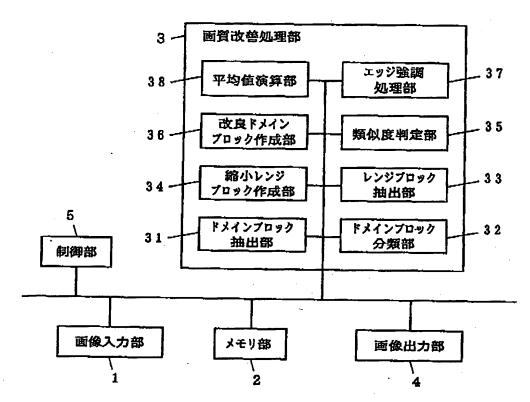
## FIG. 5

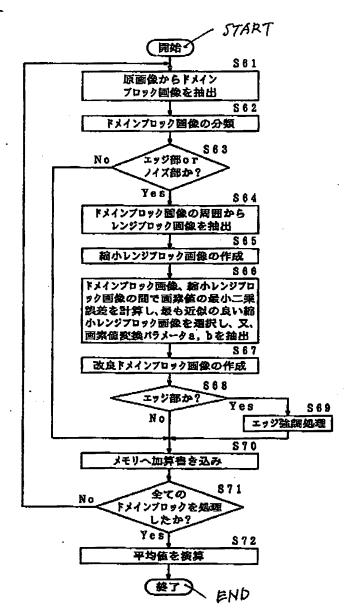
- S81 calculate averaged value "Dv" and standard deviation
  "VDv" of pixel values of domain block image;
- S83 classify as noise portion;
- S85 classify as flat portion;
- S86 concave/convex amount < Sv4?
- S87 classify as edge portion;
- S88 classify as texture portion;

## FIG. 12

- 3 image quality improving process unit;
- 6 enlarging process unit;

<del>1雪原本</del> FIG. / <del>1図11</del>





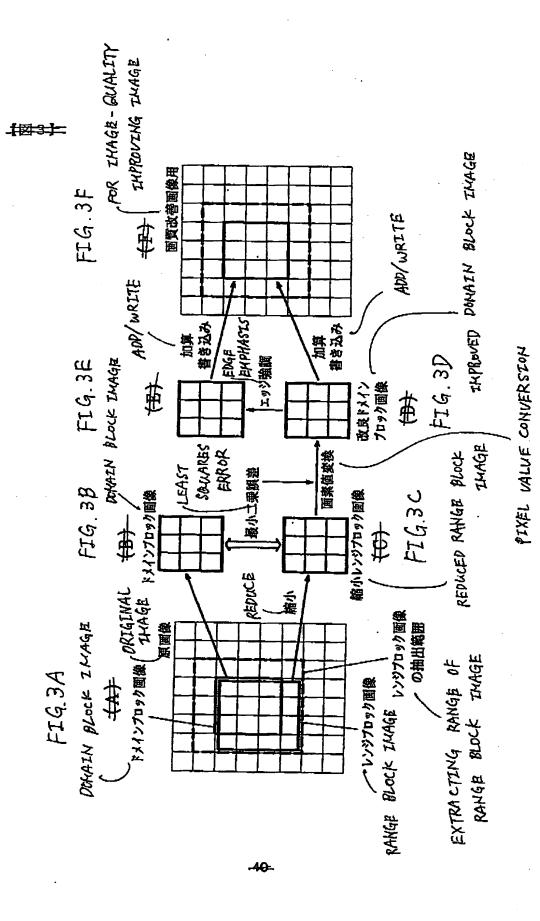


FIG. 4

+||日本||-

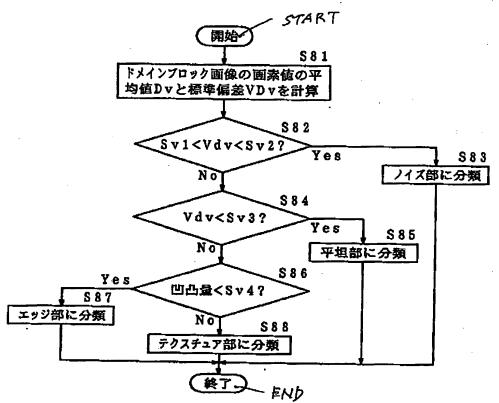
のRIGINAL THAGE
原画像

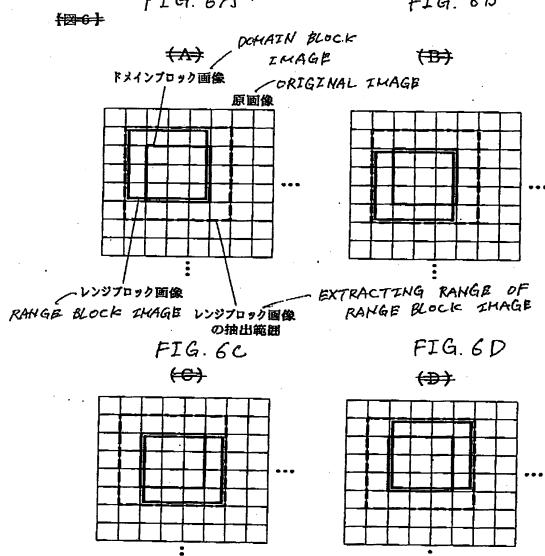
3×3ドメインプロック 画像の一つ

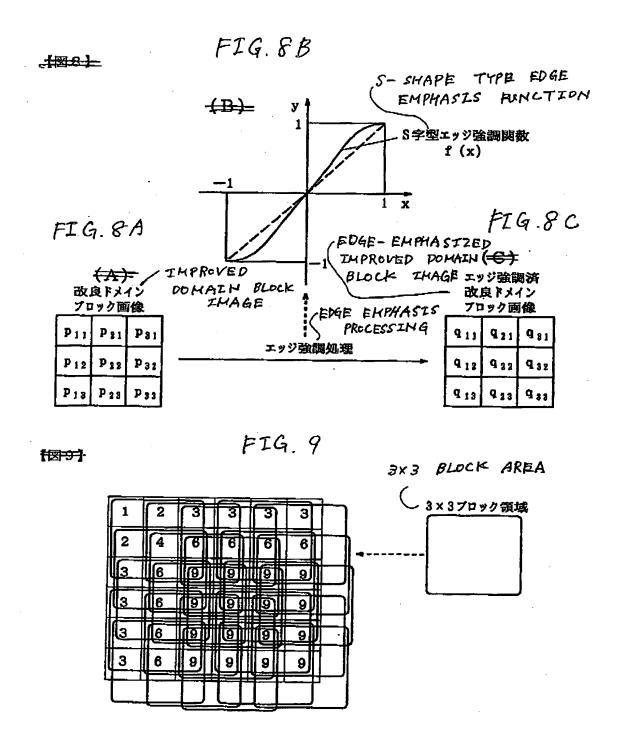
ONE OF 3x3 DOMAIN BLOCK THAGES

FIG.5

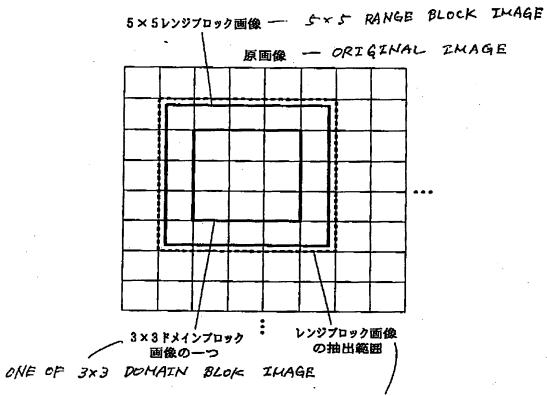




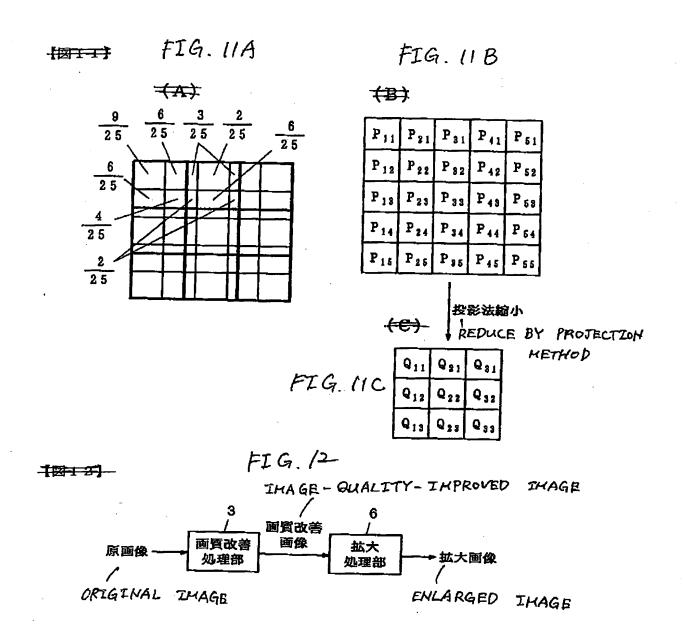




<del>1図10】</del>



EXTRACTING RANGE OF
RANGE BLOCK IMAGE



- 1図 1 3 ]

